

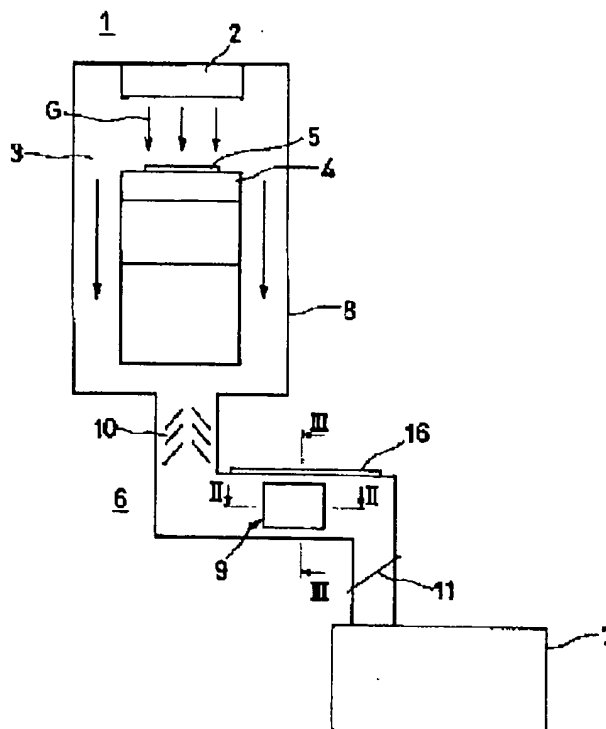
PUBLICATION NUMBER : 10237655
 PUBLICATION DATE : 08-09-98
 APPLICATION DATE : 24-02-97
 APPLICATION NUMBER : 09039063

APPLICANT : NIPPON TELEGR & TELEPH CORP
 <NTT>;

INVENTOR : AWAYA NOBUYOSHI;

INT.CL. : C23C 16/44 B01D 53/34 C23C 16/16

TITLE : EXHAUSTING SYSTEM FOR THIN
 COATING PRODUCING DEVICE AND
 EXHAUSTING METHOD



ABSTRACT : PROBLEM TO BE SOLVED: To eliminate the precipitation of solid or liq. unreacted raw material or reaction products at a room temp., to enable the prolongation of a pump service life and to reduce the time required for the maintaining operation of the pump.

SOLUTION: A heater 9 for cracking gas under heating is arranged in an exhaust pipe 8 in an exhausting device 6. This heater 9 is composed of plural planar heaters parallel to the flow of an exhaust gas and a cover freely attachable and detachable and covering the planar heaters and is provided on the downstream side of a reaction chamber 3 and on the upper stream side of a pressure control valve 11. The heater 9 cracks the raw material used for the growth of thin coating and reaction products by setting its temp. to the cracking temp. of the raw material and reaction products for above, the gas left as that only of gaseous components high in vapor pressure passes through a vacuum pump 7 and is exhausted, and on the other hand, the solid components deposit on the surface of the cover covering the heater.

COPYRIGHT: (C)1998,JPO

BEST AVAILABLE COPY